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APPLICATION NO.					
	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/090,978	03/04/2002	Federico Pio	856063.616D1	1770	
500 7	590 05/19/2003				
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC					
701 FIFTH AVE SUITE 6300			EXAMINER		
			WILLE, DOUGLAS A		
SEATTLE, WA	4 98104-7092				
·			ART UNIT	PAPER NUMBER	
			. 2814		
			DATE MAILED: 05/19/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Amalia	pv
		10/090,978	Applicant(s)	
	Office Action Summary	Examiner	PIO ET AL.	•
			Art Unit	
D	The MAILING DATE of this communication app or Reply	Douglas A Wille	2814	
Period fo				
- Exte after - If the - If NC - Failu - Any I	MAILING DATE OF THIS COMMUNICATION. MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be within the statutory minimum of thirty (30) d ill apply and will expire SIX (6) MONTHS fro	timely filed lays will be considered timely.	on.
1)🖂	Responsive to communication(s) filed on 18 M	larch 2003 .		
2a)⊠	TILL OF A THE STATE OF THE STAT	s action is non-final.		
3)	Since this application is in condition for allower	ace except for formal and the	prococution as 4s 4s	
Dispositi	closed in accordance with the practice under <i>E</i> on of Claims	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.	is
4)🖂	Claim(s) $\underline{1-15}$ is/are pending in the application.			
	4a) Of the above claim(s) is/are withdraw	n from consideration.		
5) 🗌	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>1-15</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8)[Claim(s) are subject to restriction and/or	election requirement		
Application	on Papers	and the state of t		
9)∐ T	he specification is objected to by the Examiner.			
10)∐ T	he drawing(s) filed on is/are: a) accepte	ed or b) objected to by the Exa	miner.	
	Applicant may not request that any objection to the d	frawing(s) be held in abevance S	See 37 CFR 1 85/a)	
11)[_] Ti	ne proposed drawing correction filed on is	s: a) approved b) disappro	oved by the Examiner.	
	if approved, corrected drawings are required in reply	to this Office action.	•	
	he oath or declaration is objected to by the Exam	niner.		
	der 35 U.S.C. §§ 119 and 120			
13) □ △	cknowledgment is made of a claim for foreign p	riority under 35 U.S.C. § 119(a)-(d) or (f)	
a)[_	All b) Some * c) None of:		, (-) - (,).	
	. Certified copies of the priority documents h	ave been received.		
2	Certified copies of the priority documents h	ave been received in Application	on No	
3.	Copies of the certified copies of the priority	documents have been receive	d in this National Stage	
14) 🗆 🗛	of the attached detailed Office action for a list of t	the certified copies not received	d.	
14)LJ AC	nowledgment is made of a claim for domestic p	riority under 35 U.S.C. § 119(e) (to a provisional application	າ).
a) L	I the translation of the foreign language provisi	ional application has been		•
Attachment(s)	anomic domestic p	riority under 35 U.S.C. §§ 120	and/or 121.	
	f References Cited (PTO-892)			
2) Notice of No	f Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summary (5) Notice of Informal Pa 6) Other:	(PTO-413) Paper No(s) atent Application (PTO-152)	
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 2. Claims 1-5 and 9-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamazaki.
- 3. With respect to claims 1 and 9, Yamazaki shows (see cover Figure and column 4, line 50 et seq.) a FET with a source region 101, a drain region 103 a channel region 102 and the channel region has a width determined by the implant regions 105, 106. Note that the substrate is doped (column 6, line 26) and thus a doped region surrounds the active area.
- 4. With respect to claims 2 and 10, the variable doping profile is determined by the regions 105, 106 which are implanted (column 6, line 17).
- 5. With respect to claims 3 and 11, the regions 105, 106 determine the effective width of the channel since they are pinning regions (column 4, line 65).

6. With respect to claim 4, the doping profile has a minimum at the center of the channel since the regions 105, 106 are formed by implanting further dopants in the already doped substrate.

- 7. With respect to claims 5 and 12, there is continuity of the doping in the regions 102, 105, 106.
- 8. With respect to claims 13 15, Yamazaki shows a pair of transistors (Figure 5B) and it would be obvious to make the transistors the same or different, depending on design requirements.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 6 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki in view of Iwasaki.
- 11. Yamazaki shows a method of adjusting the threshold voltage (column 7, line 27) and Iwasaki shows (see cover Figure page 3 et seq.) a structure with a pair of transistors. It would have been obvious to one with ordinary skill in the art at the time of the invention to use the Yamazaki method of adjusting the threshold of the Iwasaki device to optimize them and to use different adjustments since the FETs are different.

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Response to Arguments

12. Applicant's arguments filed 3/18/03 have been fully considered but they are not persuasive. Applicant's arguments address the amended claims which are discussed above.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas A Wille whose telephone number is (703) 308-4949. The examiner can normally be reached on M-F (6:15-2:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (703) 308-4918. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

daw Dxw May 15, 2003

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